SI-No 1140

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File No. 310/48 CD

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PW DEPARTMENT

E BRANCH I

Subject:— Training

Engineers for Hydro-Electric works in India.
Facilities for on works in Progress in Provinces

PIIE

C[K] 1951

ile No. 310/48 (D) E

G R., G D., No. 2408, dated 22-6-22.]

Correspondence

DOCKET SHEET (B)

Subject :—

File No. 310/48 (1)

P.W DEPT.

E BRANCH. I.

References :—

Date.	To whom sent.	Notes and instructions.

F. B. (I).

310/48/7780
P. W. D.

Submitted for information.

2. The papers may, perhaps, be shown U. O. to the El. Commr. with the Govt. of Bombay for remarks

The first instance.
thro. D. Es. (I) & (R).

Id/-
14-3-49.
Id/-
14-3-49.

3. We may call for information about the projects under construction in the different provinces to decide the question. It may also be pointed out that the C. W. I. N. C. Chairman, Mr. Khosla I. S. E. had suggested that the Narbada & Tapi valley, projects which would be constructed under their supervision would be a training ground for the Bombay Engineers or Roads valley Project constructions.

Id/-
14-3.

Id/-
14-3.

(i) We may call the remarks of the Elce. Commr.
and
(2) Collect information above the projects under construction in different provinces

Id/-
16-3-49

Id/-
16-3.

Id/-
16-3

List of Hydro-Electric Projects under Constn. in the Govt. of States in India.

Mysore: Mahatma Gandhi Hydro-Electric Project at Jog.

Government of Madras. (1) Moyar Hydro Electric Scheme with installed capacity of 36,000 KW. date of completion being 1950-51.

(2) Pykara Plant Extensions III and final Stage, with installed capacity of 27,200 KW. Probable date of completion is 1951-53.

(3) Papanasam Hydro-Electric Scheme Plant Extensions II stage.

(4) Machkund Hydro-Electric Scheme.

(5) Madura Thermal Scheme. Estimate included in (3) above.

(6) Nellore Thermal Scheme

(7) Madras Power Station Extension

(8) Bezwada Power House Extension. Estimate included in (4) above.

(9) Vizagaptam Power House Extention. Estimate included in (4) above.

(10) Madras-Mettur interconnection Scheme.

(11) Vijayawada-Rajmundry- Samalkot Extension. Estimate included in (4).

(12) Ceded Districts Scheme.

(13). Canjeeveram-Chinglepet- Arkonam Extension.

(14) Erode-Salem 110 K. V. Extension.

(15) Erode-Trichy-Dalmiapuram 110 K. V. Extension.

(16) Madura-Tirumangalam-Rajapalayam 66 K. V. Extension. Estimate included in (3) above.

(17)....

(17)Papanasam- Tinnevelly Kayattar 66 K. V. extension. Estimate included in (3) above.

(18). Janjore- Mayavaram- Chidambaram Extension.

(19) Negamam-Pollachi 66 K. V. Extension.

(20) West Godavari Extension.

(21) Pallivasal Hydro Electric project-II stage. — Govt. of Travancore and Cochin.

(2) Sengulam Hydro-Electric project.

(3) Poringalkuthu Hydro-Electric Project. — Govt of the T. C.

(4)Gorakhpur Tubewell Pilot Electrification Scheme.

(1) Damodar Valley corporation and (2) Kosi Projects are being executed by other agencies and not by Bihar Govt. — Govt. of the Bihar.

Mayurakshi (Mor) Reservoir Project. The Hydro-Electric Portion of it will be taken in due course. — Govt. of West Bengal.

Bhakra-Nangal Project (Punjab India.) — Govt. of Panjab.

*(1) Mohammadur Power Station. — Govt. of U. P.

(2) Sarda Hydel Project.

(3) Pathri Power Station.

E. B. (C)

310/48/38393
38766

P. W. D.

Submitted with refee. to G. L. no. 310/48-E(I), dt. the 17-5-49.

2. The Govt. of India, Central Board of Irrigation, at its annual meeting considered the question of shortage of technical man-power in India required for excution of various river valley projects in various states and suggested that the States and agencies in charge of construction and operation of Hydro-Electric works should provide necy. facilities for the training of young Engineers from their own and neighbouring States. It was also suggested that the States should employ young Engrs. on permanents and ~~trainx them~~ basis in advance of their actual requirements and train them on construction works in progress and operation of hydro-electric works.

3. In the G. L. refd. to above various States were requested to furnish information regarding Hydro-Electric Schemes under construction in those States. Some of the State Govts. have no such schemes. A list of Hydro-Electric Schemes under construction in those States which have furnished the information will be foured at PP. 13-14- ante.

4. The suggestion, that young Engrs. should be employed on permanent basis and trained in advance of the requirement of this Govt., does not seem to be feasible in view of the existing financial stringency. In view, however, of the ~~existing financial stringency. In view however, of the~~ shortage of experienced hydro-electric Engrs., it would perhaps, be advisable to send a few young Engrs. employed in the Bombay Elec. Grid, for training to other States.

The Electrical Commr. in his letter at P. 7 of the C/s. has remarked that the proposal made by the Central Board of Irrigation is not only desirable but also essential. It may here be mentioned that the Elect. Commr. has been permitted to entertain

2. Civil Engineg. and 10 Elect. & Mechl. Engg. Graduates graduates of various institutions as unpaid apprentices on the different projects under execution in the Bombay Elec. Grid- vide D.L. No. 310/48-E (I) dt. 21-9-50.

5. In the circumstances, the Elect. Commr. may, perhaps, be requested U. O. to suggest the names of a few young Engrs. already in the service of the Bombay Elec. Grid. for selection by Govt. for depuration for training on Hydro-Electric Scheme in execution in other States. That officer may also be requested to advise on the exact schemes from those mentioned at pp. 13-14 ante, on which the Engrs. may be trained, and to suggest the period, terms and conditions for such deputation.

Id/-
16-10-50.

Id: 20-10-50
28-10-50

D.S.
C.E.
Secy.

Id 19/10

The works in Ceylon may also be considered. The Valoya connection works has been brought to our notice, in commicher work use for machinary for dam construction

There may be hydro electric works also in Ceylon, discussey desiring of a visit. Perhaps the Elec. Commissioner can in obtain the request information from the Cylon Govt. your Trade Commr in Bombay.

Id/-

U. O. R. to the Elect. Commrs. with the G. of B. dt. the 31-10-50.

Below Government U. O. R. P. W. D. No. 310/48/78393/88770 dated 31/10/1950.

Electric Grid Department.

No one from the existing staff can be spared for training without appointing a substitute in his place. The only feasible way to give effect to the proposed arrangement of training young Engineers is to have permanent addition of about 10% to the cadres of Assistant Engineers and Junior Engineers and rotate this surplus so that the corresponding men can be relieved for training outside. About 6 months average training to rotate round the lot will require about 5 years and by then there will be vacancies to absorb the extra men now proposed to be appointed.

Id/-
29-12-50.

To

The Secy. to Govt.

P. W. D. Bombay.

U. O. R. No E- 192/31285

Dated 30 December 1950.

~~GVM/29/12.~~

8

E. R. (I) 310/48/81

P. W. D.

Submitted with refce. to the notes recorded at pp. 15-16 ante.

2. The Elecl. Commr. has reported that no one from the esisting staff of the El. Grid can be spared for training on consutruction works in progress and operation of hydro-electric works without appointing a substitute in his place. The Elecl. Commr. suggests that the only feasible way to give effect to the proposed arrangement of training young Engrs. is to have permt. addition of about 10 % to the cadres of Asstt. Engrs. and Junior Engrs. and rotate this surplus so that the corresp. men can be relieved for training outside. It is stated that about 6 months average training to rotate round the lot will require about 5 years and by then there will be vacancies to absorb the extra men now proposed to be appointed. In this con. it may be mentioned that in view of the present financial stringency it will not it appears be feasible to make such extra apptts. of Engrs. in the El. Grid. In the circumstances the G. of I. C. B. I., may perhaps be informed that this Govt. has no objection to providing facilities for the training of Engr. for neighbouring states on the hydro-electric schemes under construction in this State but that in view of the present financial stringency this Govt. will not be able to employ young Engrs., an permanent basis in advance of their actual requirements and send them, to other States for training for at the present.

Id/-
10-1-51.

The difficulty of recruiting experienced and really competent techinical staff for the electric Grid Scheme has been one of the great handicaps in carrying and there to the schedule. It will be therefore short sighted policy. If we do not provide for the Training as proposed by the Elec. Commr. In view of the finiancial stringency, we may however sanction only five % additional strength in the cadre of the Assistant (Elec. & Mech.) and junior Engr. (Elec. & mech.) instead of 10 % as suggested by the Elec. Commr. If this view is accepted the S. C. will be requested to report the number of approching the E. D.

Id/-
11-1-50.

I am afraid that owning to finincial stringency it will not be possible case for to support even the five % increase.

Id/-
10-1-51-

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E. B. (I) 310/48/81.
P. W. D.

Submitted with ref. to the notes recorded at pp. 19-20 ante.

2. The draft put up may issue, if approved.

Id/-
13.1.51.

D. S.

Id/-
15-1-51.

G. R., H. L. G. D., No. 2320/33, dated 20-12-'33.]

SEPARATOR

1

No. 990 /J. 200.
GOVERNMENT OF INDIA
CENTRAL BOARD OF IRRIGATION
" KENNEDY HOUSE"
SIMLA- S. W.
Dated, the 25th January, 1946.

Form

Shri N. D. Gulhati, I. S. E., M. I. E., (Ind.),

Secretary,

Central Board of Irrigation.

To

The Secretary to the Government,

Public Works Department,

Irrigation Branch,

Bombay,

Bombay, Castle,

Subject:- TRAINING OF ENGINEERING AND SEIENTIFIC PERSONNEL IN INDIA.

Sir

Sir,

There is shortage of technical man power all over India at present and the various administrations are handicapped in the excutionm of several river valley schemes for want of suitable personnel. This question was discussed at great length at the last annual meeting of the Board held in December 1948. The Board, after careful consideration, adopted the following resolution:

" IN VIEW OF THE FACT THAT MANY LARGE HYDRO-ELECTRIC PROJECTS NOW BEING UNDERTAKEN OR PLANNED IN DIFFERENT PARTS OF THE COUNTRY WILL REQUERE FOR THEIR CONSTRUCTION AND OPERATION A LARGE NUMBER OF TRAINED ENGINEERS OF DIFFERENT RANKS, THE BOARD RECOMMENDS TO THE PROVINCIAL AND STATE GOVERNMENTS CONCERNED THAT THEY EMPLOY YOUNG ENGINEERS ON PERMANENT BASIS, IN ADVANCE OF THEIR ACTUAL REQUIREMENTS AND TO TRAIN THEM ON CONSTRUCTION WORK IN PROGRESS AND OPERTION OF HYDRO-

HYDRO-ELECTRIC WORKS THAT EXIST IN SOME PARTS OF THE COUNTRY. THE BOARD TRUSTS THAT THE PROVINCES AND AGENCIES INCHARGE OF THE CONSTRUCTION AND OPERATION OF HYDRO-ELECTRIC WORKS WILL PROVIDE NECESSARY FACILITIES FOR THE TRAINING OF ENGINEERS FROM THEIR OWN AND NEIGHBOURING PROVINCES AND STATES."

I am accordingly, directed to commend this resolution of the Board for such action as you may like to take.

I shall be grateful further if you will kindly inform me of the action, taken by your Government on the subject for the information of my Board.

Yours faithfully,

Id/-
(N. D. Gulhati)
Secretary,
General Board of Irrigation.

D. A. Nil.
'Sharma' 14-1-49
No.

J. 200 Dated, the January, 1946.

Copy of above forwarded for information to the Secretary to Govt. of India, Ministry of Works, Mines and Power, New Delhi.

(N. D. Gulhati).
Secretary.

D. A. Nil.

3

No. 310/48-E(I). 310/48/81.

P. W. D.
B. C. (Bombay No. 1),
10th Jany. 1951.

To

The Secy.,
Central Board of Irrign.,
"Kennedy House"
Simla-N. W.

Subject: Training of Engrg. and Scientific personnel in India.

Sir,

I am directed to refer to the corresp. ending with this Govt. letter No. 310/48-E(I), dt. the 17-5-49, and to inform you that this Govt. has no objection to providing facilities for the training of Engrs. from neighbouring States on the hydro-electric schemes under construction in this State but, in view of the present financial stringency this Govt. will not be able to employ young Engrs. on permt. basis in advance of actual requirements and send them to other States for training at present.

Id/-
15-1-51.

Yours faithfully.

Dy. Secy. to the Govt. of Bombay, P. W. D.

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